

Title (en)
Refrigerating plant with ejector

Title (de)
Kälteanlage mit Ejektor

Title (fr)
Installation frigorifique avec éjecteur

Publication
EP 2754979 B1 20160406 (EN)

Application
EP 13196599 A 20131211

Priority
IT PD20130004 A 20130115

Abstract (en)
[origin: EP2754978A1] The invention relates to a refrigerating plant with ejector, operating with a refrigerant according to a vapour compression cycle and comprising in a main circuit 100A: - a condenser 110; - a first 111 and a second expansion device 113 positioned downstream of the condenser 110; - a first receiver of liquid 112 positioned between the two expansion devices in which the refrigerant separates into the liquid phase and the vapour phase; - an evaporator 114 positioned downstream of the second expansion device 113; - at least one primary compressor 115 positioned downstream of the evaporator 114 and upstream of the condenser 110. The plant comprises in a secondary branch 100B an ejector 116 which takes the refrigerant in output from the condenser as a driving flow and as a driven flow the refrigerant in vapour phase from the first receiver and is connected in output between the evaporator and the condenser. The present invention relates to a refrigerating plant with a triple compression stage, the intermediate stage being realised by means of an ejector.

IPC 8 full level
F25B 1/06 (2006.01); **F25B 1/10** (2006.01); **F25B 41/00** (2006.01)

CPC (source: EP)
F25B 1/10 (2013.01); **F25B 41/00** (2013.01); **F25B 41/39** (2021.01); **F25B 9/008** (2013.01); **F25B 40/00** (2013.01); **F25B 2309/061** (2013.01); **F25B 2341/0012** (2013.01); **F25B 2341/0014** (2013.01); **F25B 2400/0751** (2013.01); **F25B 2400/13** (2013.01); **F25B 2400/23** (2013.01)

Cited by
CN104764245A; US11754320B2; US10823461B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2754978 A1 20140716; EP 2754979 A1 20140716; EP 2754979 B1 20160406; ES 2581063 T3 20160831; IT PD20130004 A1 20140716

DOCDB simple family (application)
EP 13196598 A 20131211; EP 13196599 A 20131211; ES 13196599 T 20131211; IT PD20130004 A 20130115